

Mayank rawat

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EDUCATION

J.C. Bose University of Science & Technology, YMCA	Faridabad, Haryana
<i>Bachelor of Technology in Computer Engineering - 6.6 CGPA</i>	2021 – 2025
KCM World School	Palwal
<i>12th Non-Medical (CBSE), Percentage : 85.4</i>	2020 – 2021
KCM Public School	Palwal
<i>10th (CBSE), Percentage : 82.2</i>	2018 – 2019

PROFESSIONAL EXPERIENCE

SDE 1	May 2025 – Present
<i>The Regiment</i>	<i>Chandigarh</i>
<ul style="list-style-type: none">Designed and developed scalable backend services using Node.js, TypeScript, and NestJS, following RESTful API standards and implementing TCP-based microservices for reliable inter-service communication.Integrated React.js + Redux frontends with backend APIs, ensuring end-to-end type safety and smooth full-stack collaboration using TypeScript.Built and maintained a custom SMTP mail service for transactional emails, configuring SPF, DKIM, and DMARC to improve deliverability and security.Deployed and managed services on Linux VPS, configuring Nginx, SSL/HTTPS, domains, and DNS for production-ready environments.Containerized applications using Docker, optimized CI/CD pipelines, and wrote Bash scripts to automate deployments and operational tasks.Implemented JWT-based authentication, RBAC, and robust validation, and worked with PostgreSQL, MySQL, MongoDB, and Redis for efficient data handling and caching.	
PROJECTS	

MailTR | Node.js, SMTP, Linux, Docker, Prometheus, Grafana | Live | Github

- Designed and built a custom mailing service using a self-hosted **SMTP server**, containerized with **Docker** and deployed via automated **CI/CD** on Linux-based infrastructure.
- Implemented secure email delivery with **SPF, DKIM, and DMARC**, along with retry queues, failure handling, and structured logging to ensure reliability and high deliverability.
- Integrated **Prometheus** and **Grafana** to monitor email throughput, failures, and system health, enabling observability and proactive issue detection.

SquadUp | NestJS, React, WebSockets, Redis (In Progress) | Live | GitHub

- Building a real-time collaboration platform enabling users to code together and **compile programs in multiple languages** within shared sessions.
- Implemented live synchronization using **WebSockets** and **Redis** for session state management and low-latency updates.
- Designing a scalable backend architecture with authentication, room management, secure code execution orchestration, and real-time communication.

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, SQL, Bash

Backend Technologies: Node.js, NestJS, Express.js, REST APIs, SMTP

Frontend Technologies: React.js, Next.js, HTML, CSS

Databases & Caching: PostgreSQL, MongoDB, Redis

DevOps & Infrastructure: Linux, Docker, Nginx, CI/CD, Prometheus, Grafana

Tools: Git, GitHub, Postman, Firebase, VS Code

Core CS Concepts: Data Structures, OOP, DBMS, Operating Systems, Networking

Problem Solving: Solved 150+ DSA problems on LeetCode